

Cluster

Case Processing Summary^{a,b}

Valid		Cases Missing		Total	
N	Percent	N	Percent	N	Percent
918	100.0	0	.0	918	100.0

a. Squared Euclidean Distance used

b. Average Linkage (Between Groups)

Average Linkage (Between Groups)

Agglomeration Schedule

Stage	Cluster Combined		Coefficients	Stage Cluster First Appears		Next Stage
	Cluster 1	Cluster 2		Cluster 1	Cluster 2	
1	444	596	.000	0	0	213
2	432	552	.000	0	0	224
3	308	344	1.490	0	0	24
4	468	475	2.000	0	0	33
5	430	537	2.040	0	0	98
6	318	369	2.040	0	0	49
7	38	234	4.000	0	0	279
8	665	734	4.560	0	0	38
9	214	904	5.000	0	0	177
10	123	184	5.000	0	0	392
11	125	646	6.160	0	0	199
12	45	853	6.250	0	0	466
13	330	465	6.810	0	0	33
14	312	481	8.610	0	0	138
15	170	724	9.000	0	0	300
16	464	471	9.000	0	0	102
17	270	526	9.610	0	0	429
18	367	436	10.000	0	0	416
19	353	365	10.000	0	0	87
20	342	343	10.010	0	0	113
21	651	770	10.250	0	0	303
22	483	584	10.840	0	0	569
23	381	395	12.250	0	0	97
24	308	447	12.725	3	0	60
25	336	454	12.840	0	0	249
26	19	812	13.000	0	0	629
27	546	641	13.000	0	0	365
28	355	358	13.090	0	0	126
29	204	268	14.000	0	0	648
30	459	462	14.250	0	0	254
31	243	820	14.440	0	0	517
32	55	562	14.960	0	0	147
33	330	468	15.305	13	4	271
34	235	860	16.250	0	0	307
35	190	586	16.490	0	0	332
36	380	385	17.000	0	0	112
37	301	390	17.360	0	0	390
38	83	665	17.880	0	8	417
39	660	829	18.000	0	0	117
40	218	262	18.000	0	0	47
41	658	670	18.040	0	0	198

Agglomeration Schedule

Stage	Cluster Combined		Coefficients	Stage Cluster First Appears		Next Stage
	Cluster 1	Cluster 2		Cluster 1	Cluster 2	
42	90	627	18.250	0	0	469
43	328	435	18.360	0	0	174
44	142	494	18.640	0	0	355
45	720	861	19.000	0	0	168
46	346	472	19.000	0	0	148
47	218	274	19.000	40	0	273
48	82	247	19.250	0	0	510
49	318	428	19.820	6	0	367
50	356	452	20.000	0	0	244
51	393	439	20.000	0	0	90
52	10	28	20.000	0	0	146
53	530	575	20.010	0	0	264
54	455	564	20.010	0	0	94
55	718	731	21.000	0	0	296
56	155	730	21.000	0	0	142
57	283	547	21.000	0	0	177
58	306	467	21.000	0	0	175
59	65	639	21.010	0	0	154
60	308	536	21.083	24	0	133
61	600	601	21.250	0	0	354
62	33	571	23.000	0	0	84
63	254	563	23.000	0	0	266
64	758	852	23.360	0	0	245
65	88	488	24.000	0	0	418
66	219	884	24.160	0	0	317
67	94	141	25.000	0	0	771
68	25	72	25.000	0	0	237
69	618	818	25.250	0	0	109
70	294	392	26.000	0	0	527
71	14	167	26.000	0	0	306
72	446	559	26.040	0	0	329
73	453	461	26.160	0	0	239
74	557	604	26.250	0	0	792
75	130	202	26.250	0	0	436
76	399	410	27.000	0	0	141
77	303	351	27.250	0	0	175
78	629	850	27.640	0	0	199
79	750	894	28.560	0	0	403
80	147	164	29.000	0	0	362
81	331	425	29.160	0	0	101
82	517	573	29.250	0	0	552
83	296	478	29.250	0	0	113
84	33	181	29.500	62	0	356
85	304	422	29.840	0	0	174
86	16	740	30.000	0	0	155
87	353	414	30.000	19	0	126
88	375	413	30.000	0	0	138
89	56	84	30.000	0	0	214
90	393	485	32.210	51	0	131
91	205	802	33.410	0	0	200
92	877	898	34.160	0	0	287
93	382	405	34.250	0	0	220
94	455	558	34.425	54	0	156

Agglomeration Schedule

Stage	Cluster Combined		Coefficients	Stage Cluster First Appears		Next Stage
	Cluster 1	Cluster 2		Cluster 1	Cluster 2	
95	324	437	35.250	0	0	225
96	58	419	35.250	0	0	234
97	363	381	36.125	0	23	481
98	368	430	36.220	0	5	216
99	438	484	36.250	0	0	180
100	311	338	36.290	0	0	390
101	309	331	36.430	0	81	249
102	415	464	36.500	0	16	219
103	678	835	37.000	0	0	183
104	126	199	37.000	0	0	359
105	96	858	37.560	0	0	374
106	372	386	38.000	0	0	416
107	681	698	38.040	0	0	614
108	5	259	38.250	0	0	500
109	618	686	38.265	69	0	218
110	440	482	38.290	0	0	333
111	477	490	38.410	0	0	259
112	307	380	38.510	0	36	464
113	296	342	38.725	83	20	281
114	350	359	39.000	0	0	256
115	122	154	39.000	0	0	365
116	249	531	39.010	0	0	345
117	535	660	40.090	0	39	273
118	495	772	40.610	0	0	221
119	137	694	41.000	0	0	194
120	339	397	41.000	0	0	257
121	138	684	41.890	0	0	304
122	17	671	42.000	0	0	242
123	527	532	42.010	0	0	565
124	597	742	42.240	0	0	339
125	41	134	42.250	0	0	238
126	353	355	42.512	87	28	448
127	18	236	43.000	0	0	544
128	577	672	43.360	0	0	315
129	144	806	43.440	0	0	319
130	201	685	44.000	0	0	426
131	374	393	44.670	0	90	216
132	715	827	44.690	0	0	293
133	308	443	44.943	60	0	310
134	345	451	45.000	0	0	219
135	39	73	45.000	0	0	431
136	314	384	45.040	0	0	501
137	91	780	46.000	0	0	316
138	312	375	46.455	14	88	180
139	27	708	46.640	0	0	351
140	576	602	47.010	0	0	239
141	362	399	47.500	0	76	286
142	89	155	47.500	0	56	320
143	565	859	47.560	0	0	266
144	280	849	48.000	0	0	246
145	210	903	48.160	0	0	234
146	10	737	48.240	52	0	557
147	55	598	48.350	32	0	213

Agglomeration Schedule

Stage	Cluster Combined		Coefficients	Stage Cluster First Appears		Next Stage
	Cluster 1	Cluster 2		Cluster 1	Cluster 2	
148	346	442	48.500	46	0	271
149	595	607	49.000	0	0	536
150	744	889	49.040	0	0	212
151	610	666	49.240	0	0	229
152	75	175	49.250	0	0	456
153	335	402	49.490	0	0	494
154	65	132	49.505	59	0	325
155	16	248	49.750	86	0	190
156	455	541	49.790	94	0	380
157	594	779	50.000	0	0	291
158	642	784	50.040	0	0	412
159	22	736	51.000	0	0	431
160	71	106	51.000	0	0	374
161	23	795	52.000	0	0	384
162	337	376	52.560	0	0	274
163	4	177	53.000	0	0	313
164	755	890	53.640	0	0	283
165	119	911	54.000	0	0	268
166	370	416	54.000	0	0	375
167	115	561	54.040	0	0	287
168	622	720	54.140	0	45	250
169	460	519	55.000	0	0	330
170	332	457	55.000	0	0	338
171	135	253	55.000	0	0	430
172	644	745	55.210	0	0	247
173	231	801	55.610	0	0	438
174	304	328	55.660	85	43	204
175	303	306	55.875	77	58	310
176	810	897	57.000	0	0	401
177	214	283	57.000	9	57	361
178	300	383	57.010	0	0	324
179	486	589	57.640	0	0	407
180	312	438	57.665	138	99	302
181	48	887	58.000	0	0	334
182	136	882	58.000	0	0	289
183	47	678	60.500	0	103	444
184	8	291	61.000	0	0	387
185	54	888	61.010	0	0	429
186	273	650	62.410	0	0	380
187	9	841	63.250	0	0	322
188	701	875	63.490	0	0	278
189	498	777	64.560	0	0	391
190	16	145	64.833	155	0	530
191	545	566	64.890	0	0	461
192	107	252	65.000	0	0	351
193	713	823	65.250	0	0	508
194	137	648	65.500	119	0	350
195	605	787	66.000	0	0	478
196	364	431	66.000	0	0	370
197	63	165	66.000	0	0	306
198	7	658	66.260	0	41	522
199	125	629	66.700	11	78	422
200	102	205	66.705	0	91	548

Agglomeration Schedule

Stage	Cluster Combined		Coefficients	Stage Cluster First Appears		Next Stage
	Cluster 1	Cluster 2		Cluster 1	Cluster 2	
201	325	326	67.210	0	0	393
202	608	792	67.290	0	0	482
203	21	722	67.440	0	0	533
204	304	347	67.800	174	0	425
205	299	409	68.000	0	0	448
206	496	865	68.240	0	0	284
207	582	633	68.560	0	0	596
208	178	883	68.690	0	0	437
209	503	652	69.010	0	0	335
210	511	895	69.090	0	0	331
211	140	705	69.360	0	0	668
212	744	783	69.600	150	0	384
213	55	444	69.750	147	1	364
214	56	741	70.000	89	0	475
215	729	819	70.560	0	0	433
216	368	374	70.596	98	131	367
217	489	501	70.690	0	0	478
218	225	618	70.963	0	109	295
219	345	415	71.167	134	102	302
220	357	382	71.625	0	93	366
221	495	696	72.105	118	0	313
222	619	842	73.000	0	0	339
223	704	773	73.000	0	0	438
224	432	583	73.000	2	0	719
225	298	324	73.185	0	95	454
226	80	831	73.960	0	0	452
227	121	800	74.000	0	0	318
228	30	293	74.000	0	0	364
229	610	632	74.620	151	0	741
230	434	836	74.640	0	0	629
231	297	352	75.040	0	0	575
232	388	404	76.000	0	0	483
233	502	824	76.040	0	0	503
234	58	210	76.405	96	145	358
235	193	466	77.000	0	0	412
236	271	847	77.440	0	0	598
237	11	25	77.500	0	68	531
238	40	41	77.625	0	125	363
239	453	576	77.745	73	140	497
240	148	766	78.000	0	0	607
241	246	427	78.000	0	0	474
242	17	272	78.000	122	0	484
243	176	212	78.000	0	0	487
244	316	356	78.390	0	50	333
245	626	758	78.630	0	64	319
246	280	811	78.960	144	0	408
247	644	762	79.105	172	0	432
248	172	628	80.000	0	0	402
249	309	336	80.863	101	25	454
250	622	753	81.147	168	0	415
251	699	828	81.240	0	0	350
252	615	749	81.840	0	0	580
253	180	269	82.000	0	0	782

Agglomeration Schedule

Stage	Cluster Combined		Coefficients	Stage Cluster First Appears		Next Stage
	Cluster 1	Cluster 2		Cluster 1	Cluster 2	
254	389	459	82.125	0	30	369
255	2	555	82.490	0	0	576
256	350	406	82.740	114	0	546
257	302	339	83.140	0	120	559
258	321	441	83.160	0	0	578
259	477	504	83.925	111	0	418
260	510	709	84.000	0	0	378
261	64	256	84.000	0	0	449
262	520	788	84.010	0	0	878
263	118	839	84.090	0	0	677
264	530	554	84.125	53	0	348
265	20	57	85.250	0	0	579
266	254	565	85.580	63	143	450
267	507	568	86.000	0	0	563
268	119	290	86.000	165	0	492
269	470	767	86.160	0	0	361
270	909	915	86.360	0	0	480
271	330	346	87.441	33	148	483
272	476	480	88.250	0	0	693
273	218	535	89.332	47	117	358
274	337	378	89.800	162	0	581
275	85	556	90.000	0	0	551
276	161	417	90.000	0	0	569
277	105	223	90.000	0	0	406
278	62	701	90.945	0	188	664
279	38	208	91.000	7	0	577
280	433	912	91.250	0	0	862
281	296	429	91.425	113	0	373
282	746	768	92.240	0	0	682
283	661	755	92.820	0	164	486
284	496	528	92.870	206	0	692
285	655	867	93.000	0	0	670
286	362	377	93.667	141	0	439
287	115	877	93.960	167	92	413
288	534	549	94.250	0	0	389
289	136	765	95.000	182	0	490
290	112	255	95.000	0	0	661
291	594	837	95.440	157	0	634
292	418	759	95.960	0	0	345
293	715	905	95.985	132	0	605
294	287	591	97.040	0	0	623
295	225	834	97.542	218	0	415
296	718	879	97.860	55	0	327
297	221	886	98.000	0	0	404
298	100	153	98.000	0	0	556
299	680	814	98.250	0	0	391
300	170	864	98.500	15	0	663
301	647	786	98.840	0	0	776
302	312	345	98.943	180	219	592
303	651	778	99.125	21	0	379
304	138	732	100.345	121	0	465
305	506	913	101.000	0	0	532
306	14	63	101.000	71	197	400

Agglomeration Schedule

Stage	Cluster Combined		Coefficients	Stage Cluster First Appears		Next Stage
	Cluster 1	Cluster 2		Cluster 1	Cluster 2	
307	235	691	101.125	34	0	462
308	354	407	102.000	0	0	467
309	505	570	102.250	0	0	551
310	303	308	102.651	175	133	425
311	663	771	103.000	0	0	484
312	171	588	103.000	0	0	758
313	4	495	103.853	163	221	469
314	32	524	104.000	0	0	667
315	139	577	104.480	0	128	566
316	91	813	104.560	137	0	658
317	219	265	104.680	66	0	596
318	121	637	105.040	227	0	401
319	144	626	105.150	129	245	496
320	89	643	105.360	142	0	381
321	305	341	105.490	0	0	393
322	9	97	105.625	187	0	531
323	3	159	106.000	0	0	712
324	300	327	106.125	178	0	643
325	65	692	106.137	154	0	451
326	870	900	107.560	0	0	479
327	718	721	107.837	296	0	518
328	479	677	108.640	0	0	524
329	51	446	109.260	0	72	463
330	360	460	110.500	0	169	610
331	111	511	110.825	0	210	537
332	190	191	111.445	35	0	767
333	316	440	111.805	244	110	516
334	48	706	112.000	181	0	441
335	503	756	112.505	209	0	636
336	166	261	113.000	0	0	518
337	529	581	113.250	0	0	515
338	332	408	113.250	170	0	686
339	597	619	113.600	124	222	631
340	173	241	114.000	0	0	420
341	146	233	114.000	0	0	572
342	117	232	114.000	0	0	505
343	238	500	115.000	0	0	482
344	174	743	115.010	0	0	590
345	249	418	115.115	116	292	453
346	623	803	115.210	0	0	508
347	371	391	115.250	0	0	511
348	530	553	115.750	264	0	563
349	207	638	116.440	0	0	424
350	137	699	116.687	194	251	444
351	27	107	116.720	139	192	471
352	790	899	117.000	0	0	414
353	456	473	117.000	0	0	644
354	162	600	117.125	0	61	457
355	142	250	117.370	44	0	485
356	33	599	117.423	84	0	446
357	695	917	117.640	0	0	522
358	58	218	119.090	234	273	543
359	126	587	119.500	104	0	502

Agglomeration Schedule

Stage	Cluster Combined		Coefficients	Stage Cluster First Appears		Next Stage
	Cluster 1	Cluster 2		Cluster 1	Cluster 2	
360	42	267	121.000	0	0	555
361	214	470	121.230	177	269	561
362	13	147	121.500	0	80	459
363	40	282	121.750	238	0	624
364	30	55	121.760	228	213	570
365	122	546	122.040	115	27	530
366	357	515	122.083	220	0	385
367	318	368	123.112	49	216	516
368	735	761	123.160	0	0	423
369	319	389	123.833	0	254	686
370	364	493	124.000	196	0	464
371	313	458	124.560	0	0	494
372	891	902	125.840	0	0	645
373	296	322	125.852	281	0	610
374	71	96	126.880	160	105	539
375	370	411	127.000	166	0	582
376	609	851	127.440	0	0	748
377	266	821	127.440	0	0	707
378	510	540	128.000	260	0	627
379	651	854	128.750	303	0	408
380	273	455	129.320	186	156	537
381	89	868	130.340	320	0	574
382	264	916	130.440	0	0	702
383	46	474	130.490	0	0	565
384	23	744	131.693	161	212	507
385	348	357	131.938	0	366	546
386	543	560	132.250	0	0	560
387	8	15	132.500	184	0	451
388	703	856	132.760	0	0	671
389	514	534	133.265	0	288	621
390	301	311	133.635	37	100	644
391	498	680	133.725	189	299	602
392	123	188	134.500	10	0	465
393	305	325	134.635	321	201	573
394	426	863	135.090	0	0	611
395	728	871	135.160	0	0	707
396	227	910	136.000	0	0	567
397	657	710	136.000	0	0	486
398	412	424	136.000	0	0	724
399	50	229	136.000	0	0	574
400	14	420	136.250	306	0	470
401	121	810	136.847	318	176	608
402	172	748	137.000	248	0	583
403	679	750	137.650	0	79	786
404	74	221	139.000	0	297	568
405	580	791	139.010	0	0	461
406	105	286	140.000	277	0	495
407	486	521	140.870	179	0	636
408	280	651	140.933	246	379	717
409	533	673	141.000	0	0	548
410	423	449	141.000	0	0	554
411	43	220	141.000	0	0	710
412	193	642	141.020	235	158	496

Agglomeration Schedule

Stage	Cluster Combined		Coefficients	Stage Cluster First Appears		Next Stage
	Cluster 1	Cluster 2		Cluster 1	Cluster 2	
413	115	702	141.450	287	0	567
414	195	790	141.500	0	352	528
415	225	622	142.224	295	250	553
416	367	372	143.000	18	106	581
417	83	518	143.570	38	0	554
418	88	477	143.617	65	259	543
419	289	630	144.000	0	0	586
420	173	683	145.000	340	0	615
421	421	491	146.090	0	0	594
422	125	182	146.790	199	0	550
423	675	735	147.700	0	368	647
424	207	224	148.220	349	0	805
425	303	304	148.610	310	204	588
426	201	782	149.000	130	0	638
427	67	114	149.000	0	0	542
428	512	738	149.640	0	0	762
429	54	270	149.905	185	17	655
430	135	769	151.500	171	0	620
431	22	39	153.000	159	135	529
432	644	880	153.470	247	0	669
433	624	729	154.800	0	215	547
434	634	747	155.890	0	0	525
435	840	918	155.960	0	0	472
436	130	727	156.125	75	0	598
437	178	640	156.345	208	0	692
438	231	704	157.305	173	223	586
439	362	401	157.750	286	0	600
440	688	872	158.000	0	0	602
441	48	764	158.573	334	0	561
442	317	340	158.640	0	0	727
443	379	516	159.000	0	0	656
444	47	137	159.341	183	350	690
445	81	878	161.240	0	0	593
446	33	463	161.408	356	0	523
447	87	805	161.810	0	0	653
448	299	353	163.418	205	126	527
449	64	213	164.000	261	0	557
450	254	892	164.240	266	0	632
451	8	65	164.586	387	325	514
452	26	80	164.980	0	226	540
453	151	249	166.793	0	345	612
454	298	309	166.815	225	249	706
455	808	822	169.000	0	0	763
456	75	292	171.125	152	0	539
457	52	162	173.083	0	354	660
458	799	914	174.360	0	0	609
459	13	179	174.667	362	0	544
460	60	603	175.000	0	0	750
461	545	580	175.725	191	405	620
462	235	846	176.083	307	0	524
463	51	168	176.173	329	0	506
464	307	364	176.248	112	370	562
465	123	138	176.421	392	304	577

Agglomeration Schedule

Stage	Cluster Combined		Coefficients	Stage Cluster First Appears		Next Stage
	Cluster 1	Cluster 2		Cluster 1	Cluster 2	
466	45	869	176.885	12	0	558
467	349	354	178.960	0	308	592
468	169	613	179.000	0	0	660
469	4	90	180.637	313	42	650
470	14	793	181.170	400	0	633
471	27	244	181.710	351	0	657
472	230	840	181.980	0	435	729
473	24	143	182.000	0	0	595
474	246	908	183.240	241	0	587
475	56	881	183.250	214	0	752
476	682	757	184.000	0	0	725
477	120	258	184.000	0	0	775
478	489	605	185.745	217	195	673
479	870	906	186.140	326	0	752
480	550	909	186.340	0	270	552
481	363	398	186.417	97	0	699
482	238	608	186.595	343	202	652
483	330	388	187.047	271	232	588
484	17	663	189.167	242	311	625
485	142	523	189.247	355	0	616
486	657	661	189.280	397	283	613
487	131	176	190.000	0	243	652
488	68	776	190.440	0	0	670
489	35	751	191.960	0	0	576
490	136	848	192.667	289	0	607
491	876	907	194.440	0	0	513
492	119	127	195.000	268	0	775
493	260	611	196.000	0	0	672
494	313	335	196.085	371	153	578
495	105	866	196.627	406	0	630
496	144	193	197.424	319	412	655
497	113	453	198.498	0	239	665
498	44	832	199.000	0	0	608
499	257	804	199.440	0	0	713
500	5	160	199.625	108	0	571
501	314	323	199.800	136	0	676
502	126	187	200.000	359	0	657
503	502	714	200.900	233	0	732
504	149	798	201.000	0	0	680
505	117	809	202.000	342	0	651
506	51	53	204.630	463	0	624
507	23	774	204.746	384	0	613
508	623	713	204.955	346	193	669
509	98	203	205.000	0	0	850
510	82	129	205.625	48	0	550
511	371	403	205.765	347	0	766
512	620	645	206.040	0	0	824
513	707	876	206.220	0	491	628
514	8	93	208.144	451	0	658
515	529	662	208.765	337	0	747
516	316	318	211.205	333	367	635
517	222	243	212.020	0	31	595
518	166	718	212.853	336	327	725

Agglomeration Schedule

Stage	Cluster Combined		Coefficients	Stage Cluster First Appears		Next Stage
	Cluster 1	Cluster 2		Cluster 1	Cluster 2	
519	189	237	213.000	0	0	750
520	284	687	213.360	0	0	736
521	194	539	214.000	0	0	678
522	7	695	214.727	198	357	605
523	33	263	215.116	446	0	568
524	235	479	216.033	462	328	662
525	634	690	216.645	434	0	715
526	226	723	216.760	0	0	611
527	294	299	217.727	70	448	649
528	95	195	218.000	0	414	703
529	22	654	219.000	431	0	570
530	16	122	219.520	190	365	556
531	9	11	220.750	322	237	612
532	506	585	220.890	305	0	668
533	21	833	221.720	203	0	648
534	752	844	222.000	0	0	601
535	625	668	223.240	0	0	597
536	595	664	223.500	149	0	653
537	111	273	224.009	331	380	640
538	288	621	224.160	0	0	622
539	71	75	224.240	374	456	634
540	26	635	225.307	452	0	604
541	211	711	226.000	0	0	705
542	67	92	228.500	427	0	662
543	58	88	230.162	358	418	689
544	13	18	230.500	459	127	688
545	157	659	231.000	0	0	688
546	348	350	231.097	385	256	687
547	624	817	231.667	433	0	696
548	102	533	231.970	200	409	753
549	76	567	235.250	0	0	637
550	82	125	235.355	510	422	684
551	85	505	235.875	275	309	681
552	517	550	235.892	82	480	779
553	225	281	237.308	415	0	621
554	83	423	239.478	417	410	700
555	42	200	239.500	360	0	708
556	16	100	240.448	530	298	759
557	10	64	240.547	146	449	639
558	45	763	241.070	466	0	760
559	302	320	241.613	257	0	656
560	101	543	242.625	0	386	647
561	48	214	243.160	441	361	690
562	307	509	244.368	464	0	706
563	507	530	244.798	267	348	726
564	277	525	245.000	0	0	748
565	46	527	245.285	383	123	666
566	139	807	245.640	315	0	623
567	115	227	247.160	413	396	640
568	33	74	248.708	523	404	783
569	161	483	250.470	276	22	665
570	22	30	251.463	529	364	622
571	5	196	251.750	500	0	744

Agglomeration Schedule

Stage	Cluster Combined		Coefficients	Stage Cluster First Appears		Next Stage
	Cluster 1	Cluster 2		Cluster 1	Cluster 2	
572	66	146	252.000	0	341	609
573	295	305	252.405	0	393	687
574	50	89	252.872	399	381	651
575	297	396	257.870	231	0	768
576	2	35	260.115	255	489	663
577	38	123	260.677	279	465	638
578	313	321	264.383	494	258	844
579	20	36	266.125	265	0	823
580	606	615	266.720	0	252	631
581	337	367	267.800	274	416	699
582	361	370	268.667	0	375	803
583	172	656	269.333	402	0	761
584	6	49	271.000	0	0	784
585	712	815	271.160	0	0	825
586	231	289	271.953	438	419	735
587	246	725	272.613	474	0	722
588	303	330	272.680	425	483	635
589	109	612	273.040	0	0	702
590	174	669	273.505	344	0	718
591	124	133	274.000	0	0	855
592	312	349	274.685	302	467	649
593	81	816	274.820	445	0	682
594	421	789	279.145	421	0	711
595	24	222	279.613	473	517	691
596	219	582	279.837	317	207	695
597	625	797	280.310	535	0	713
598	130	271	280.537	436	236	746
599	796	825	281.290	0	0	773
600	362	394	281.330	439	0	693
601	752	785	284.560	534	0	749
602	498	688	286.998	391	440	673
603	653	719	287.000	0	0	704
604	26	667	288.980	540	0	718
605	7	715	289.649	522	293	675
606	794	862	290.160	0	0	802
607	136	148	290.750	490	240	679
608	44	121	291.308	498	401	675
609	66	799	291.567	572	458	705
610	296	360	294.016	373	330	755
611	226	426	294.635	526	394	632
612	9	151	295.459	531	453	728
613	23	657	296.388	507	486	695
614	245	681	297.100	0	107	739
615	173	874	300.667	420	0	672
616	142	873	300.755	485	0	619
617	192	278	302.250	0	0	815
618	754	830	305.490	0	0	874
619	142	843	306.836	616	0	677
620	135	545	307.152	430	461	708
621	225	514	307.413	553	389	717
622	22	288	310.453	570	538	722
623	139	287	311.990	566	294	745
624	40	51	314.867	363	506	701

Agglomeration Schedule

Stage	Cluster Combined		Coefficients	Stage Cluster First Appears		Next Stage
	Cluster 1	Cluster 2		Cluster 1	Cluster 2	
625	17	693	316.400	484	0	800
626	896	901	316.960	0	0	763
627	510	592	317.000	378	0	711
628	707	855	318.360	513	0	736
629	19	434	319.120	26	230	847
630	105	700	319.690	495	0	716
631	597	606	319.837	339	580	740
632	226	254	321.301	611	450	749
633	14	206	324.868	470	0	654
634	71	594	325.260	539	291	731
635	303	316	326.185	588	516	789
636	486	503	326.916	407	335	689
637	76	579	327.125	549	0	745
638	38	201	328.044	577	426	683
639	10	522	330.273	557	0	697
640	111	115	331.638	537	567	733
641	649	781	333.560	0	0	833
642	78	513	334.010	0	0	809
643	300	334	334.473	324	0	676
644	301	456	335.138	390	353	721
645	775	891	335.200	0	372	790
646	34	158	337.000	0	0	730
647	101	675	337.812	560	423	774
648	21	204	345.813	533	29	772
649	294	312	346.757	527	592	789
650	4	215	347.901	469	0	681
651	50	117	349.337	574	505	698
652	131	238	350.489	487	482	754
653	87	595	350.838	447	536	769
654	14	893	351.316	633	0	737
655	54	144	351.904	429	496	684
656	302	379	355.570	559	443	721
657	27	126	358.528	471	502	740
658	8	91	361.650	514	316	714
659	86	469	365.360	0	0	862
660	52	169	371.813	457	468	719
661	69	112	372.500	0	290	762
662	67	235	372.559	542	524	732
663	2	170	372.746	576	300	734
664	62	163	375.963	278	0	710
665	113	161	379.561	497	569	774
666	46	616	380.325	565	0	741
667	12	32	382.000	0	314	742
668	140	506	383.343	211	532	701
669	623	644	387.033	508	432	746
670	68	655	388.720	488	285	743
671	593	703	392.500	0	388	831
672	173	260	395.000	615	493	822
673	489	498	397.200	478	602	795
674	310	333	398.240	0	0	844
675	7	44	400.395	605	608	773
676	300	314	400.482	643	501	788
677	118	142	401.122	263	619	837

Agglomeration Schedule

Stage	Cluster Combined		Coefficients	Stage Cluster First Appears		Next Stage
	Cluster 1	Cluster 2		Cluster 1	Cluster 2	
678	194	548	406.250	521	0	753
679	61	136	407.000	0	607	787
680	128	149	414.500	0	504	809
681	4	85	416.379	650	551	700
682	81	746	418.853	593	282	802
683	38	116	421.461	638	0	758
684	54	82	422.346	655	550	737
685	103	183	424.000	0	0	841
686	319	332	424.375	369	338	766
687	295	348	424.921	573	546	755
688	13	157	426.333	544	545	714
689	58	486	427.106	543	636	728
690	47	48	428.826	444	561	780
691	24	826	430.184	595	0	791
692	178	496	433.800	437	284	770
693	362	476	434.082	600	272	738
694	156	739	435.840	0	0	848
695	23	219	441.336	613	596	765
696	1	624	441.750	0	547	735
697	10	197	443.120	639	0	778
698	50	217	444.336	651	0	797
699	337	363	444.455	581	481	738
700	4	83	444.969	681	554	726
701	40	140	445.328	624	668	783
702	109	264	447.620	589	382	747
703	95	845	454.000	528	0	729
704	653	885	457.250	603	0	739
705	66	211	458.400	609	541	778
706	298	307	458.927	454	562	788
707	266	728	460.060	377	395	791
708	42	135	461.601	555	620	781
709	186	276	469.000	0	0	815
710	43	62	470.972	411	664	799
711	421	510	473.397	594	627	785
712	3	569	475.250	323	0	854
713	257	625	476.790	499	597	812
714	8	13	477.725	658	688	800
715	634	636	478.060	525	0	820
716	105	697	478.946	630	0	760
717	225	280	480.626	621	408	731
718	26	174	487.483	604	590	765
719	52	432	491.264	660	224	785
720	279	726	491.760	0	0	833
721	301	302	494.722	644	656	768
722	22	246	497.287	622	587	730
723	499	614	507.090	0	0	751
724	366	412	508.250	0	398	903
725	166	682	514.768	518	476	799
726	4	507	515.624	700	563	806
727	315	317	527.850	0	442	816
728	9	58	528.664	612	689	733
729	95	230	532.520	703	472	813
730	22	34	535.656	722	646	814

Agglomeration Schedule

Stage	Cluster Combined		Coefficients	Stage Cluster First Appears		Next Stage
	Cluster 1	Cluster 2		Cluster 1	Cluster 2	
731	71	225	537.140	634	717	759
732	67	502	541.296	662	503	754
733	9	111	543.427	728	640	820
734	2	838	545.390	663	0	794
735	1	231	546.507	696	586	797
736	284	707	547.090	520	628	784
737	14	54	547.365	654	684	795
738	337	362	548.528	699	693	810
739	245	653	552.861	614	704	798
740	27	597	557.701	657	631	832
741	46	610	558.388	666	229	781
742	12	448	561.000	667	0	801
743	68	487	565.760	670	0	780
744	5	240	566.563	571	0	804
745	76	139	567.177	637	623	801
746	130	623	569.385	598	669	772
747	109	529	570.230	702	515	821
748	277	609	572.020	564	376	794
749	226	752	573.091	632	601	770
750	60	189	581.500	460	519	837
751	59	499	582.245	0	723	811
752	56	870	582.679	475	479	856
753	102	194	584.052	548	678	839
754	67	131	585.008	732	652	835
755	295	296	587.175	687	610	826
756	275	760	594.000	0	0	898
757	492	544	596.000	0	0	804
758	38	171	600.318	683	312	793
759	16	71	601.608	556	731	823
760	45	105	611.160	558	716	814
761	108	172	615.000	0	583	786
762	69	512	617.953	661	428	796
763	808	896	625.680	455	626	825
764	99	445	627.250	0	0	777
765	23	26	628.828	695	718	817
766	319	371	643.306	686	511	803
767	190	733	643.830	332	0	831
768	297	301	643.981	575	721	867
769	87	538	644.642	653	0	798
770	178	226	666.194	692	749	827
771	94	239	671.250	67	0	873
772	21	130	671.481	648	746	793
773	7	796	674.013	675	599	787
774	101	113	676.793	647	665	832
775	119	120	682.250	492	477	813
776	647	674	690.650	301	0	790
777	79	99	693.625	0	764	866
778	10	66	696.410	697	705	824
779	517	689	703.416	552	0	828
780	47	68	710.640	690	743	817
781	42	46	712.485	708	741	835
782	180	590	718.000	253	0	808
783	33	40	723.393	568	701	806

Agglomeration Schedule

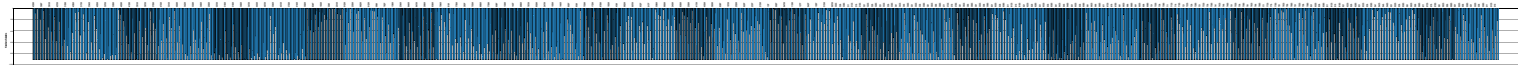
Stage	Cluster Combined		Coefficients	Stage Cluster First Appears		Next Stage
	Cluster 1	Cluster 2		Cluster 1	Cluster 2	
784	6	284	729.473	584	736	822
785	52	421	730.476	719	711	839
786	108	679	733.590	761	403	838
787	7	61	739.877	773	679	836
788	298	300	741.847	706	676	816
789	294	303	744.748	649	635	826
790	647	775	752.153	776	645	887
791	24	266	761.680	691	707	845
792	185	557	764.125	0	74	853
793	21	38	768.419	772	758	847
794	2	277	781.070	734	748	856
795	14	489	792.173	737	673	857
796	69	551	803.728	762	0	858
797	1	50	806.567	735	698	805
798	87	245	807.932	769	739	858
799	43	166	808.011	710	725	836
800	8	17	813.276	714	625	842
801	12	76	835.446	742	745	852
802	81	794	835.760	682	606	834
803	319	361	838.459	766	582	879
804	5	492	838.950	744	757	828
805	1	207	839.410	797	424	870
806	4	33	847.539	726	783	846
807	29	104	848.000	0	0	894
808	180	717	859.000	782	0	851
809	78	128	859.738	642	680	840
810	337	387	866.421	738	0	867
811	59	578	867.660	751	0	841
812	70	257	873.938	0	713	884
813	95	119	884.620	729	775	840
814	22	45	887.230	730	760	852
815	186	192	890.625	709	617	865
816	298	315	906.612	788	727	859
817	23	47	906.663	765	780	842
818	209	716	921.360	0	0	872
819	31	251	935.000	0	0	863
820	9	634	963.040	733	715	846
821	109	631	963.179	747	0	869
822	6	173	972.105	784	672	849
823	16	20	975.648	759	579	834
824	10	620	987.383	778	512	843
825	712	808	990.930	585	763	860
826	294	295	1005.102	789	755	875
827	178	198	1008.344	770	0	845
828	5	517	1011.427	804	779	868
829	373	400	1013.000	0	0	903
830	572	574	1019.000	0	0	869
831	190	593	1023.016	767	671	898
832	27	101	1028.120	740	774	843
833	279	649	1044.240	720	641	883
834	16	81	1062.346	823	802	857
835	42	67	1071.175	781	754	853
836	7	43	1076.193	787	799	864

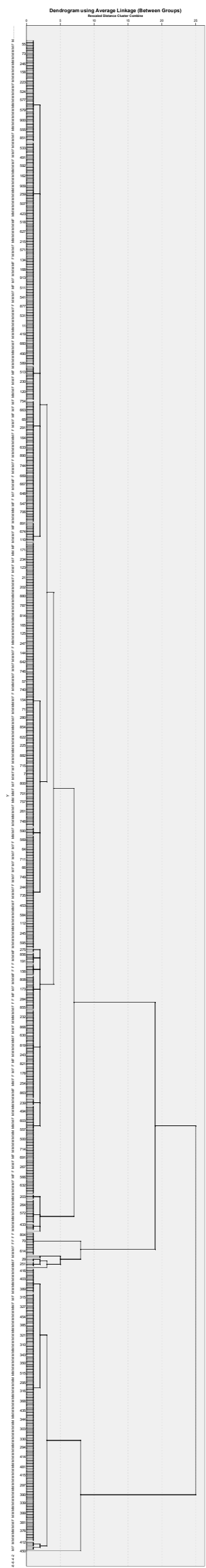
Agglomeration Schedule

Stage	Cluster Combined		Coefficients	Stage Cluster First Appears		Next Stage
	Cluster 1	Cluster 2		Cluster 1	Cluster 2	
837	60	118	1100.478	750	677	880
838	108	216	1104.046	786	0	864
839	52	102	1113.540	785	753	871
840	78	95	1125.252	809	813	872
841	59	103	1125.975	811	685	855
842	8	23	1131.522	800	817	874
843	10	27	1144.293	824	832	854
844	310	313	1152.252	674	578	859
845	24	178	1178.501	791	827	870
846	4	9	1178.704	806	820	868
847	19	21	1185.817	629	793	861
848	156	285	1190.320	694	0	883
849	6	857	1219.417	822	0	860
850	98	676	1264.540	509	0	897
851	180	508	1286.750	808	0	890
852	12	22	1313.640	801	814	882
853	42	185	1336.080	835	792	878
854	3	10	1354.582	712	843	881
855	59	124	1375.350	841	591	884
856	2	56	1390.248	794	752	882
857	14	16	1412.939	795	834	861
858	69	87	1450.135	796	798	881
859	298	310	1470.971	816	844	886
860	6	712	1476.100	849	825	891
861	14	19	1544.145	857	847	876
862	86	433	1566.855	659	280	901
863	31	77	1596.500	819	0	894
864	7	108	1622.407	836	838	876
865	110	186	1654.313	0	815	887
866	79	542	1686.167	777	0	877
867	297	337	1710.412	768	810	875
868	4	5	1734.924	846	828	871
869	109	572	1786.754	821	830	885
870	1	24	1834.943	805	845	891
871	4	52	1882.583	868	839	892
872	78	209	1893.574	840	818	889
873	37	94	1907.083	0	771	893
874	8	754	1907.732	842	618	889
875	294	297	1922.304	826	867	886
876	7	14	1950.107	864	861	902
877	79	228	2095.125	866	0	885
878	42	520	2137.919	853	262	880
879	319	329	2182.009	803	0	900
880	42	60	2210.608	878	837	893
881	3	69	2240.853	854	858	890
882	2	12	2305.312	856	852	892
883	156	279	2318.090	848	833	904
884	59	70	2338.428	855	812	914
885	79	109	2439.023	877	869	897
886	294	298	2442.530	875	859	900
887	110	647	2488.087	865	790	888
888	110	242	2602.505	887	0	905
889	8	78	2743.684	874	872	899

Agglomeration Schedule

Stage	Cluster Combined		Coefficients	Stage Cluster First Appears		Next Stage
	Cluster 1	Cluster 2		Cluster 1	Cluster 2	
890	3	180	2776.842	881	851	902
891	1	6	2836.809	870	860	896
892	2	4	2860.867	882	871	899
893	37	42	2912.648	873	880	896
894	29	31	3091.333	807	863	910
895	150	617	3140.360	0	0	912
896	1	37	3336.401	891	893	904
897	79	98	3433.520	885	850	906
898	190	275	3450.299	831	756	907
899	2	8	3635.719	892	889	905
900	294	319	3636.668	886	879	909
901	86	152	3906.703	862	0	906
902	3	7	3910.789	890	876	908
903	366	373	3944.667	724	829	909
904	1	156	4244.281	896	883	907
905	2	110	4606.935	899	888	908
906	79	86	4866.559	897	901	913
907	1	190	5048.194	904	898	911
908	2	3	5295.716	905	902	911
909	294	366	5671.958	900	903	915
910	29	497	6814.800	894	0	912
911	1	2	10081.143	907	908	913
912	29	150	12004.247	910	895	914
913	1	79	16450.378	911	906	916
914	29	59	18622.022	912	884	916
915	294	450	19200.474	909	0	917
916	1	29	47659.323	913	914	917
917	1	294	65866.430	916	915	0





Quick Cluster

Initial Cluster Centers

	Cluster	
	1	2
Age	54	55
RestingBP	130	0
Cholesterol	603	0
MaxHR	125	155
Oldpeak	1.0	1.5

Iteration History^a

Iteration	Change in Cluster Centers	
	1	2
1	274.287	217.949
2	31.121	23.396
3	20.053	27.291
4	16.413	42.064
5	10.071	44.888
6	4.679	25.723
7	1.219	5.606
8	.000	.000

a. Convergence achieved due to no or small change in cluster centers. The maximum absolute coordinate change for any center is .000. The current iteration is 8. The minimum distance between initial centers is 617.584.

Final Cluster Centers

	Cluster	
	1	2
Age	53	56
RestingBP	133	130
Cholesterol	246	5
MaxHR	140	122
Oldpeak	.9	.8

ANOVA

	Cluster		Error		F	Sig.
	Mean Square	df	Mean Square	df		
Age	1861.719	1	87.039	916	21.389	.000
RestingBP	1871.296	1	341.105	916	5.486	.019
Cholesterol	8421928.702	1	2783.708	916	3025.436	.000
MaxHR	47715.649	1	596.845	916	79.946	.000
Oldpeak	.361	1	1.138	916	.317	.574

The F tests should be used only for descriptive purposes because the clusters have been chosen to maximize the differences among cases in different clusters. The observed significance levels are not corrected for this and thus cannot be interpreted as tests of the hypothesis that the cluster means are equal.

**Number of Cases in
each Cluster**

Cluster	1	738.000
	2	180.000
Valid		918.000
Missing		.000